

KINO-PTL

mini-ITX SBC supports Intel® Core Ultra Processor (Series 3)



Features

- » Intel® Core Ultra Processor (Series 3)
- » 2 x 262-pin 6400 MHz DDR5 CSO-DIMM, system up to 128G
- » Quad independent display via HDMI, USB4 and iDPM
- » Support triple Intel® I226V and I226LM 2.5GbE controller
- » Support PCIe Gen5 x4, M.2 M key, M.2 B key and M.2 E key expansion

Specifications

Form Factor	
Form Factor	Mini-ITX SBC
System	
CPU	Intel® Core Ultra Processor (Series 3)
Memory	2 x 262-pin 6400 MHz DDR5 CSO-DIMM
Memory Max.	up to 128GB
Cooling method / System Fan	1 x CPU fan connector (1x4 pin)
	1 x System fan connector (1x4 pin)
Physical Characteristics	
Dimensions (LxWxH) (mm)	170mm x 170mm
Net Weight	GW: 900g / NW: 400g
Storage	
Storage	2 x SATA : 6Gb/s
I/O Interface	
Display Output	1 x HDMI™ : up to 4K @30Hz
	1 x iDPM : M 3040 slot (only for IEI module)
	2 x USB4 : up to 4096 x 2160 @60Hz
Ethernet	3 x LAN -
	LAN1: Intel® I226LM 2.5GbE controller
	LAN2: Intel® I226V 2.5GbE controller
	LAN3: Intel® I226V 2.5GbE controller
Audio	1 x HD Audio : Realtek ALC888S HD Audio codec
	2 x Audio Jack (Line-out, Mic-in)
	1 x Analog audio (2x5 pin)
I/O Interface	1 x DIO : 12-bit digital I/O (2x7 pin)
	1 x External USB 2.0 : Type-A
	2 x External USB 3.2 Gen2x1 : Type-A, 10Gb/s
	4 x Internal RS-232 : 2x5 pin, P=2.0
	2 x Internal RS-232/422/485 : 2x5 pin, P=2.0
	4 x Internal USB 2.0 : 2x4 pin, P=2.0
Expansion	1 x PCIe x4 : with x4 Signal Gen5
Other Features	
TPM	2x10 pin
Power	
Power Consumption	TBD
Power Supply	Input voltage range : 12~28V

	1 x internal power connector (2x2 pin)
	1 x external DC power jack (Ø2.6mm)
	ErP/EuP Compliant
Environment	
Operating Temperature	-10°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Humidity	5% ~ 95%, non-condensing
Card Slot Interface	
M.2	1 x M.2 E Key for WIFI & BT 2230 (PCIe Gen4 x1 & USB 2.0)
	1 x M.2 B key 3042 (PCIe Gen4 x1/USB2.0)
	1 x M.2 M key 2280 (PCIe Gen4 x2)

Ordering Information

KINO-PTL-U7B-R10	Mini-ITX SBC with Intel® Panther Lake-H Core Ultra7 358H SoC Processor,DDR5, 12~28V DC input, Quad Display,SATA,Triple Intel 2.5GbE, USB4, M.2, TPM, RoHS
KINO-PTL-U7A-R10	Mini-ITX SBC with Intel® Panther Lake-H Core Ultra7 355 SoC Processor,DDR5, 12~28V DC input, Quad Display,SATA,Triple Intel 2.5GbE, USB4, M.2, TPM, RoHS
KINO-PTL-U5B-R10	Mini-ITX SBC with Intel® Panther Lake-H Core Ultra5 338H SoC Processor,DDR5, 12~28V DC input, Quad Display,SATA,Triple Intel 2.5GbE, USB4, M.2, TPM, RoHS
KINO-PTL-U5A-R10	Mini-ITX SBC with Intel® Panther Lake-H Core Ultra5 325 SoC Processor,DDR5, 12~28V DC input, Quad Display,SATA,Triple Intel 2.5GbE, USB4, M.2, TPM, RoHS

Packing List

1 x KINO-PTL single board computer	1 x I/O Shielding
2 x SATA cable	1 x QIG